SEQUENCE LISTING

<110> Anderson, Christen M.
Clevenger, William

<120> COMPOSITIONS AND METHODS FOR REGULATING ENDOGENOUS INHIBITOR OF ATP SYNTHASE, INCLUDING TREATMENT FOR DIABETES

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<140> US
<141> 2002-02-27

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Arg Lys Lys Arg Arg Gln Arg Arg
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<400> 11
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<213> Rattus norvegicus

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cgagaagctg gtggggcctt cgggaaacga gagaaggctg aagaggatcg gtacttccga 180
gagaagacta gagagcagct ggctgccttg aagaagcacc atgaagatga gattgaccac 240
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tacctaaaga atagtgagca ttga 324

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<213> Rattus norvegicus

<400> 13
Met Ala Gly Ser Ala Leu Ala Val Arg Ala Arg Leu Gly Val Trp Gly
1 5 10 15
Met Arg Val Leu Gln Thr Arg Gly Phe Gly Ser Asp Ser Ser Glu Ser
20 25 30
Met Asp Ser Gly Ala Gly Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly
35 40 45
Lys Arg Glu Lys Ala Glu Glu Asp Arg Tyr Phe Arg Glu Lys Thr Arg
50 55 60
Glu Gln Leu Ala Ala Leu Lys Lys His His Glu Asp Glu Ile Asp His
65 70 75 80
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85 90 95
Lys Lys Ile Lys Tyr Leu Lys Asn Ser Glu His
100 105

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<213> Rattus norvegicus

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caaacccgag gcttc 75

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<213> Mus musculus

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<213> Mus musculus

<400> 16

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            20                  25                  30
Met Asp Thr Gly Ala Gly Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly
        35                  40                  45
Lys Arg Glu Lys Ala Glu Glu Asp Arg Tyr Phe Arg Glu Lys Thr Lys
    50                  55                  60
Glu Gln Leu Ala Ala Leu Arg Lys His His Glu Asp Glu Ile Asp His
65                  70                  75                  80
His Ser Lys Glu Ile Glu Arg Leu Gln Lys Gln Ile Asp Arg His Lys
                85                  90                  95
Lys Lys Ile Gln Gln Leu Lys Asn Asn His
            100                 105
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<212> DNA
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<220>
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<210> 20
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<212> DNA

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<400> 20
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<400> 21
agatatggca ggaagaagcg gagacagaga gga 33

<210> 22
<211> 11
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<213> Artificial Sequence

<220>
<223> Tat-derived cellular targeting sequence

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Arg Tyr Gly Arg Lys Lys Arg Arg Gln Arg Gly
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<210> 23
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<212> DNA
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<220>
<223> PCR primer

<400> 23
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<210> 24
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<220>
<223> PCR primer

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<210> 25

<211> 25
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<213> Artificial Sequence

<220>
<223> Polypeptide consisting of amino acids 22-46 of the mature form of rat IF1

<400> 25
Phe Gly Lys Arg Glu Lys Ala Glu Glu Asp Arg Tyr Phe Arg Glu Lys
1 5 10 15
Thr Arg Glu Gln Leu Ala Ala Leu Lys
20 25

<210> 26
<211> 17
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<213> Artificial Sequence

<220>
<223> Polypeptide consisting of amino acids 42-58 of the mature form of rat IF1

<400> 26
Leu Ala Ala Leu Lys Lys His His Glu Asp Glu Ile Asp His His Ser
1 5 10 15
Lys

<210> 27
<211> 7
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<213> Artificial Sequence

<220>
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<400> 27
Arg Lys Lys Arg Arg Gln Arg
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<210> 28
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<213> Rattus norvegicus

<400> 28
Met Ala Gly Ser Ala Leu Ala Val Arg Ala Arg Leu Gly Val Trp Gly
1 5 10 15
Met Arg Val Leu Gln Thr Arg Gly Phe
20 25

<210> 29

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<220>
<223> Synthetic peptide fragment derived from rat IF1 sequence.

<400> 29
Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu
1 5 10 15
Glu Asp Arg Tyr Phe Arg Glu Lys Thr Arg Glu Gln Leu Ala Ala Leu
20 25 30
Lys Lys

<210> 30
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<220>
<223> Synthetic peptide fragment derived from rat IF1 sequence.

<400> 30
Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu
1 5 10 15
Glu Asp Arg Tyr
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<210> 31
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1 sequence.

<400> 31
Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu Glu
1 5 10 15
Asp Arg Tyr Phe
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<210> 32
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<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1
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<400> 32
Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu Glu Asp
1 5 10 15
Arg Tyr Phe Arg
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<210> 33
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<212> PRT
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<220>
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<400> 33
Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu Glu Asp Arg
1 5 10 15
Tyr Phe Arg Glu
20

<210> 34
<211> 20
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<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1
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<400> 34
Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu Glu Asp Arg Tyr
1 5 10 15
Phe Arg Glu Lys
20

<210> 35
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1
sequence.

<400> 35
Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu Glu Asp Arg Tyr Phe

1 5 10 15
Arg Glu Lys Thr
20

<210> 36
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1 sequence.

<400> 36
Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu Glu Asp Arg Tyr Phe Arg
1 5 10 15
Glu Lys Thr Arg
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<210> 37
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
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<400> 37
Ala Phe Gly Lys Arg Glu Lys Ala Glu Glu Asp Arg Tyr Phe Arg Glu
1 5 10 15
Lys Thr Arg Glu
20

<210> 38
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1 sequence.

<400> 38
Phe Gly Lys Arg Glu Lys Ala Glu Glu Asp Arg Tyr Phe Arg Glu Lys
1 5 10 15
Thr Arg Glu Gln
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<210> 39

<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1 sequence.

<400> 39
Gly Lys Arg Glu Lys Ala Glu Glu Asp Arg Tyr Phe Arg Glu Lys Thr
1 5 10 15
Arg Glu Gln Leu
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<210> 40
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<212> PRT
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<223> Synthetic peptide fragment derived from rat IF1 sequence.

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Lys Arg Glu Lys Ala Glu Glu Asp Arg Tyr Phe Arg Glu Lys Thr Arg
1 5 10 15
Glu Gln Leu Ala
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<210> 41
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<212> PRT
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<220>
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Arg Glu Lys Ala Glu Glu Asp Arg Tyr Phe Arg Glu Lys Thr Arg Glu
1 5 10 15
Gln Leu Ala Ala
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<212> PRT
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<220>
<223> Synthetic peptide fragment derived from rat IF1

sequence.

<400> 42
Glu Lys Ala Glu Glu Asp Arg Tyr Phe Arg Glu Lys Thr Arg Glu Gln
1 5 10 15
Leu Ala Ala Leu
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<210> 43
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1 sequence.

<400> 43
Lys Ala Glu Glu Asp Arg Tyr Phe Arg Glu Lys Thr Arg Glu Gln Leu
1 5 10 15
Ala Ala Leu Lys
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<210> 44
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<212> PRT
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<220>
<223> Synthetic peptide fragment derived from rat IF1 sequence.

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1 5 10 15
Ala Leu Lys Lys
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<212> PRT
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<223> Synthetic peptide fragment derived from rat IF1 sequence.

<400> 46
Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg
1 5 10

<210> 47
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<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1 sequence.

<400> 47
Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu
1 5 10

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<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1 sequence.

<400> 48
Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys
1 5 10

<210> 49
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<223> Synthetic peptide fragment derived from rat IF1 sequence.

<400> 49
Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala

1 5 10 15

<210> 50
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
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<400> 50
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1 5 10 15

<210> 51
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1 sequence.

<400> 51
Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu
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<210> 52
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1 sequence.

<400> 52
Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu
1 5 10 15
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<210> 53
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1
sequence.

<400> 53
Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu
1 5 10 15
Glu Asp Arg

<210> 54
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1
sequence.

<400> 54
Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu
1 5 10 15
Glu Asp Arg Tyr
20

<210> 55
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1
sequence.

<400> 55
Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu
1 5 10 15
Glu Asp Arg Tyr Phe
20

<210> 56
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1
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<400> 56
Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu

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 1               5                  10                  15
Glu Asp Arg Tyr Phe Arg
            20
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<210> 57
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<213> Artificial Sequence

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 1               5                  10                  15
Glu Asp Arg Tyr Phe Arg Glu
            20
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<400> 58

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Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu
 1               5                  10                  15
Glu Asp Arg Tyr Phe Arg Glu Lys
            20
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<220>
<223> Synthetic peptide fragment derived from rat IF1 sequence.

<400> 59

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Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu
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Glu Asp Arg Tyr Phe Arg Glu Lys Thr
            20                  25
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<210> 60

<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1
sequence.

<400> 60
Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu
1 5 10 15
Glu Asp Arg Tyr Phe Arg Glu Lys Thr Arg
20 25

<210> 61
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1
sequence.

<400> 61
Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu
1 5 10 15
Glu Asp Arg Tyr Phe Arg Glu Lys Thr Arg Glu
20 25

<210> 62
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1
sequence.

<400> 62
Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu
1 5 10 15
Glu Asp Arg Tyr Phe Arg Glu Lys Thr Arg Glu Gln
20 25

<210> 63
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1

sequence.

<400> 63
Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu
1 5 10 15
Glu Asp Arg Tyr Phe Arg Glu Lys Thr Arg Glu Gln Leu
20 25

<210> 64
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1 sequence.

<400> 64
Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu
1 5 10 15
Glu Asp Arg Tyr Phe Arg Glu Lys Thr Arg Glu Gln Leu Ala
20 25 30

<210> 65
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1 sequence.

<400> 65
Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu
1 5 10 15
Glu Asp Arg Tyr Phe Arg Glu Lys Thr Arg Glu Gln Leu Ala Ala
20 25 30

<210> 66
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1 sequence.

<400> 66
Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu
1 5 10 15
Glu Asp Arg Tyr Phe Arg Glu Lys Thr Arg Glu Gln Leu Ala Ala Leu

20 25 30

<210> 67
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<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide fragment derived from rat IF1 sequence.

<400> 67
Ser Ile Arg Glu Ala Gly Gly Ala Phe Gly Lys Arg Glu Lys Ala Glu
1 5 10 15
Glu Asp Arg Tyr Phe Arg Glu Lys Thr Arg Glu Gln Leu Ala Ala Leu
20 25 30
Lys

<210> 68
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<212> PRT
<213> Artificial Sequence

<220>
<223> Epitope tag sequence.

<400> 68
Met Gly Gly Ser His His His His His His Gly Met Ala Ser Met Thr
1 5 10 15
Gly Gly Gln Gln Met Gly Arg Asp Leu Tyr Asp Asp Asp Asp Lys Asp
20 25 30
Pro Ser Ser
35

<210> 69
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Organellar targeting sequence

<400> 69
Met Ala Gly Ser Ala Leu Ala Val Arg Ala Arg Leu Gly Val Trp Gly
1 5 10 15
Met Arg Val Leu Gln Thr Arg Gly Phe
20 25

<210> 70

<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Cellular transport sequence

<400> 70
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1 5 10

<210> 71
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Fusion protein

<400> 71
Met Gly Gly Ser His His His His His His Gly Met Ala Ser Met Thr
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Gly Gly Gln Gln Met Gly Arg Asp Leu Tyr Asp Asp Asp Asp Lys Asp
20 25 30
Pro Ser Ser Gly Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly
35 40 45
Met Ala Gly Ser Ala Leu Ala Val Arg Ala Arg Leu Gly Val Trp Gly
50 55 60
Met Arg Val Leu Gln Thr Arg Gly Phe Ser Ile Arg Glu Ala Gly Gly
65 70 75 80
Ala Phe Gly Lys Arg Glu Lys Ala Glu Glu Asp Arg Tyr Phe Arg Glu
85 90 95
Lys Thr Arg Glu Gln Leu Ala Ala Leu Lys Lys
100 105

<210> 72
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Nucleotide that codes for fusion protein.

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